



Missouri Department of Natural Resources

## Total Maximum Daily Load Information Sheet

### Miami Creek

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#### Water Body Segment at a Glance:

<b>County:</b>	Bates
<b>Nearby Cities:</b>	Butler
<b>Length of impaired segment:</b>	18 miles
<b>Pollutant:</b>	Low Dissolved Oxygen
<b>Source:</b>	None Given
<b>Water Body ID:</b>	1299



State Map Showing Location of Watershed

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**Scheduled for TMDL development: 2016**

#### Description of the Problem

##### Beneficial uses of Miami Creek

- Livestock and Wildlife Watering
- Protection of Warm Water Aquatic Life
- Protection of Human Health (Fish Consumption)
- Whole Body Contact Recreation

##### Use that is impaired

- Protection of Warm Water Aquatic Life

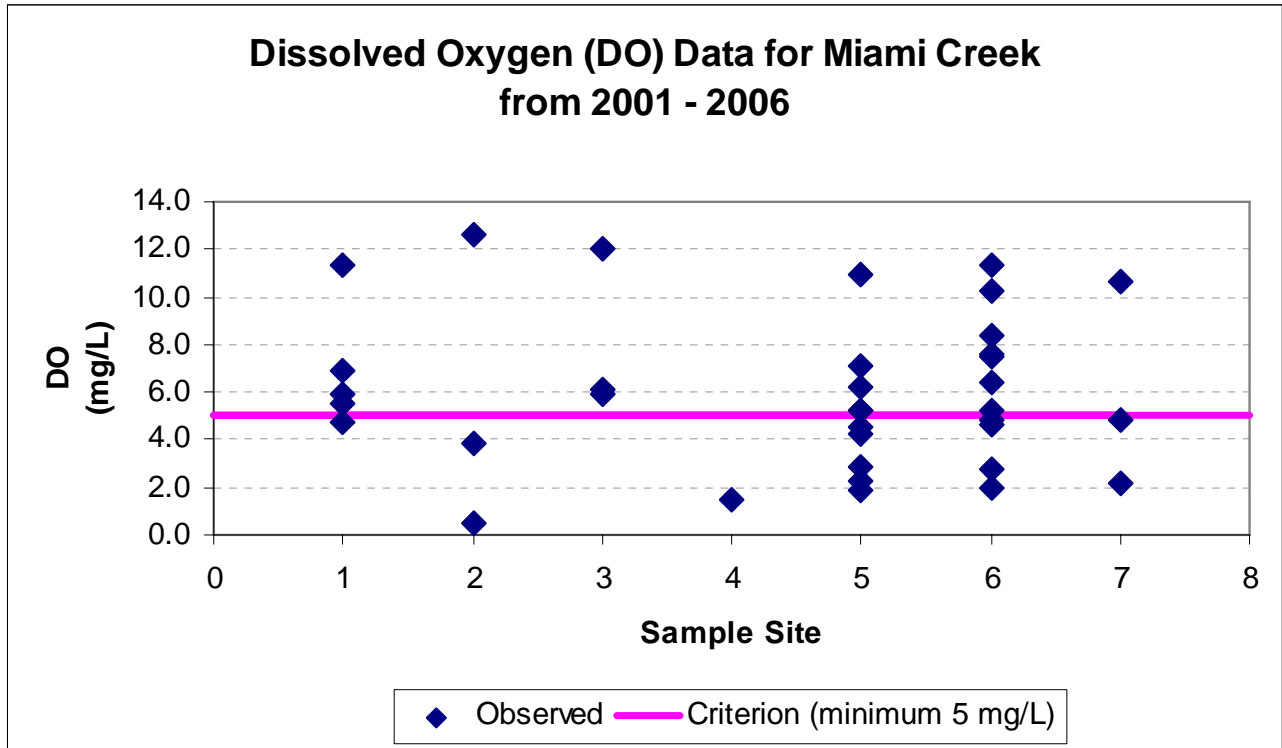
##### Standards that apply

- In the Missouri Water Quality Standards, found in 10 CSR 20-7.031 Table A, the criterion for dissolved oxygen, or DO, in streams is a minimum of 5 mg/L (milligrams per liter or parts per million).

#### Background Information and Water Quality Data

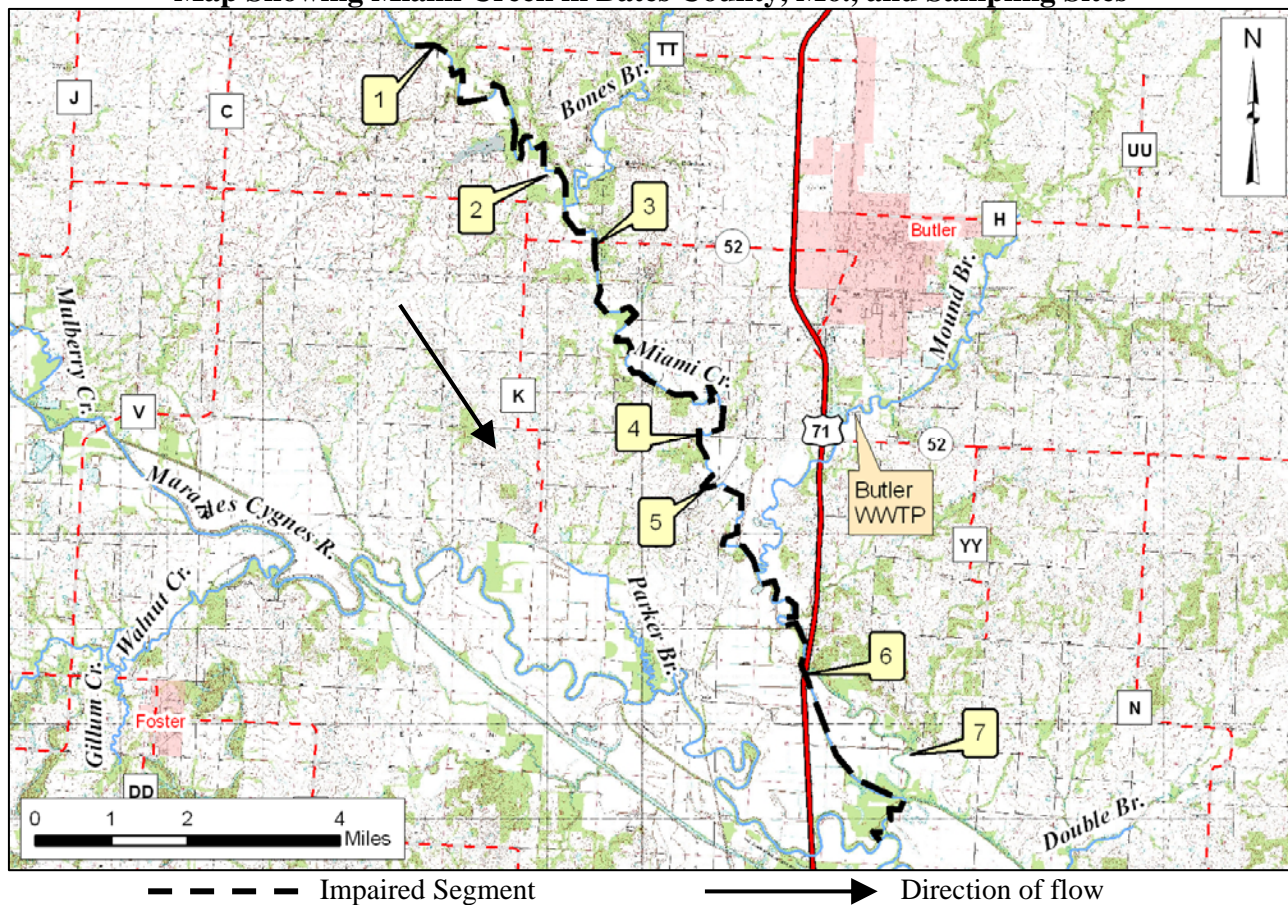
Miami Creek is a rural prairie stream in western Missouri. It flows southeast to join the Marais des Cygnes River in Bates County. The low dissolved oxygen impairment is based on data collected by the department from 2000-2004 and 2006. These data show that water quality conditions in Miami Creek are sometimes not protective of aquatic life as the dissolved oxygen is periodically very low. Dissolved oxygen is important for many aquatic organisms, which require high levels of oxygen to survive.

For dissolved oxygen, if more that 10 percent of measurements in a water body fail to meet the water quality criterion that water body is judged to be impaired. In the case of Miami Creek, 10 of 28 samples (35.7 percent) collected on the portion of creek upstream of Mound Branch did not meet the water quality criterion and six of 14 (42.8 percent) downstream of Mound Branch (sites 6 and 7). It is not known what is causing the dissolved oxygen to be low. Mound Branch is also impaired for low dissolved oxygen and a TMDL for this impairment was submitted to the U.S. Environmental Protection Agency March 19, 2010.



There is a map on the next page showing the impaired segment and sample site locations.

**Map Showing Miami Creek in Bates County, Mo., and Sampling Sites**



**Sample Sites**

- 1 – Miami Creek 2.5 miles northeast of Virginia, Mo.
- 2 – Miami Creek at Cedar Street
- 3 – Miami Creek at State Highway 52
- 4 – Miami Creek 0.5 mile upstream of Ehart Branch
- 5 – Miami Creek 2 miles upstream of Mound Branch
- 6 – Miami Creek at U.S. Highway 71
- 7 – Miami Creek at County Road SE 4006

**For more information call or write:**

Missouri Department of Natural Resources  
Water Protection Program

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